WHAT IS CLAIMED IS:

1. A portable computing system with selectable transceiver switching comprising:

a set of one or more transceivers, each of the transceivers with a unique communication protocol;

a switch capable of differentiating communication signals and determining and choosing an appropriate transceiver from the set of transceivers to communicate for the computing system; and

a multi-band antenna capable of receiving and transmitting varying frequency signals to the chosen transceiver.

2. The portable computing system of claim 1 wherein the switch is a zener diode that differentiates upon power transmission.

3. The portable computer system of claim 1 wherein the switch is an active power sensor device.

4. The portable computer system of claim 1 wherein the switch is a current limiter device.

5. The portable computer system of claim 1 further comprising:

a lookup table that associates transmission power with each of the transceivers, whereby the switch selects a transceiver from the set of transceivers when a certain power state in the lookup table is detected.

6. The portable computer system of claim 5 wherein the switch selects a transceiver based on a transmitted power.

7. The portable computer system of claim 5 wherein the switch selects a transceiver based on a received power.

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1   8.   The portable computer system of claim 1 further comprising:

2   a software driver that interfaces to the transceiver and interfaces to an

3   operating system of the portable computer system, whereby the

4   software driver receives instructions as to which transceiver of the set

5   of transceivers to select.

1   9.   The portable computer system of claim 8 wherein the software driver

2   receives instructions from a higher level protocol stack of the portable computer

3   system.

1   10.   The portable computer system of claim 8 wherein the software driver

2   receives instructions from a set of software applications of the portable computer

3   system.

1   11.   The portable computer system of claim 1 wherein the set of

2   transceivers and the switch are integrated into a circuit card.

1   12.   The portable computer system of claim 7 wherein the circuit card

2   connects to a system board of the portable computer system.

1   13.   The portable computer system of claim 7 wherein the circuit card is a

2   Mini PCI card.

1   14.   A method of switching between a set of one or more transceivers

2   within a portable computing system comprising:

3   looking up in a state table corresponding power and frequency values;

4   comparing the power and frequency of a received signal to the corresponding

5   power and frequency value; and

6   selecting a transceiver board capable of processing the received signal.

1   15.   A method of switching between a set of one or more transceivers

2   within a portable computing system comprising:

3   looking up in a state table corresponding power and frequency values;

4   comparing the power and frequency of a transmitted signal to the

5   corresponding power and frequency value; and

6   selecting a transceiver board capable of processing the received signal.

1   16.   The method of switching between a set of one or more transceivers

2   within a portable computing system of claim 14 wherein:

3   selection of a transceiver is performed by a software driver.

1   17.   The method of switching between a set of one or more transceivers

2   within a portable computing system of claim 16 wherein:

3   the software driver is instructed by a higher level protocol stack.

1   18.   The method of switching between a set of one or more transceivers

2   within a portable computing system of claim 14 wherein:

3   the software driver is instructed by a set of software applications of the

4   portable computer system.

1   19.   The method of switching between a set of one or more transceivers

2   within a portable computing system of claim 15 wherein:

3   selection of a transceiver is performed by a software driver.

1   20.   The method of switching between a set of one or more transceivers

2   within a portable computing system of claim 19 wherein:

3   the software driver is instructed by a higher level protocol stack.

1   21.   The method of switching between a set of one or more transceivers

2   within a portable computing system of claim 19 wherein:

3   the software driver is instructed by a set of software applications of the

4   portable computer system.